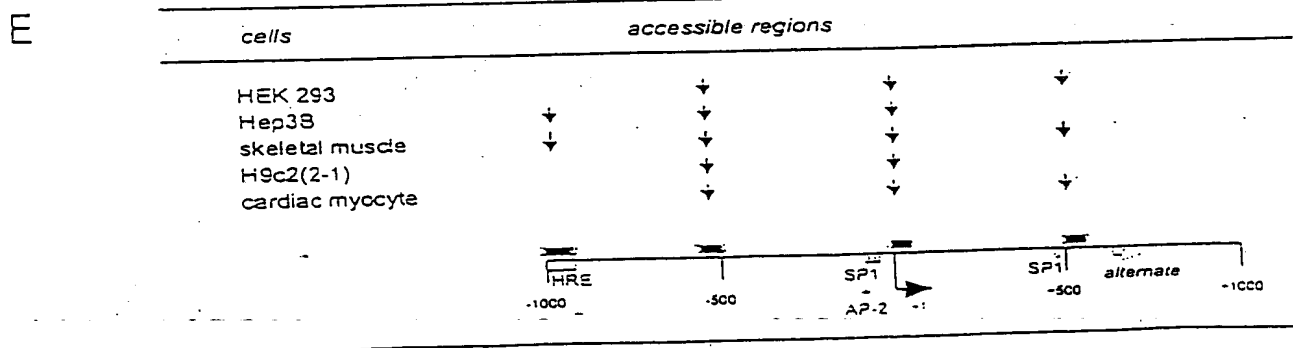
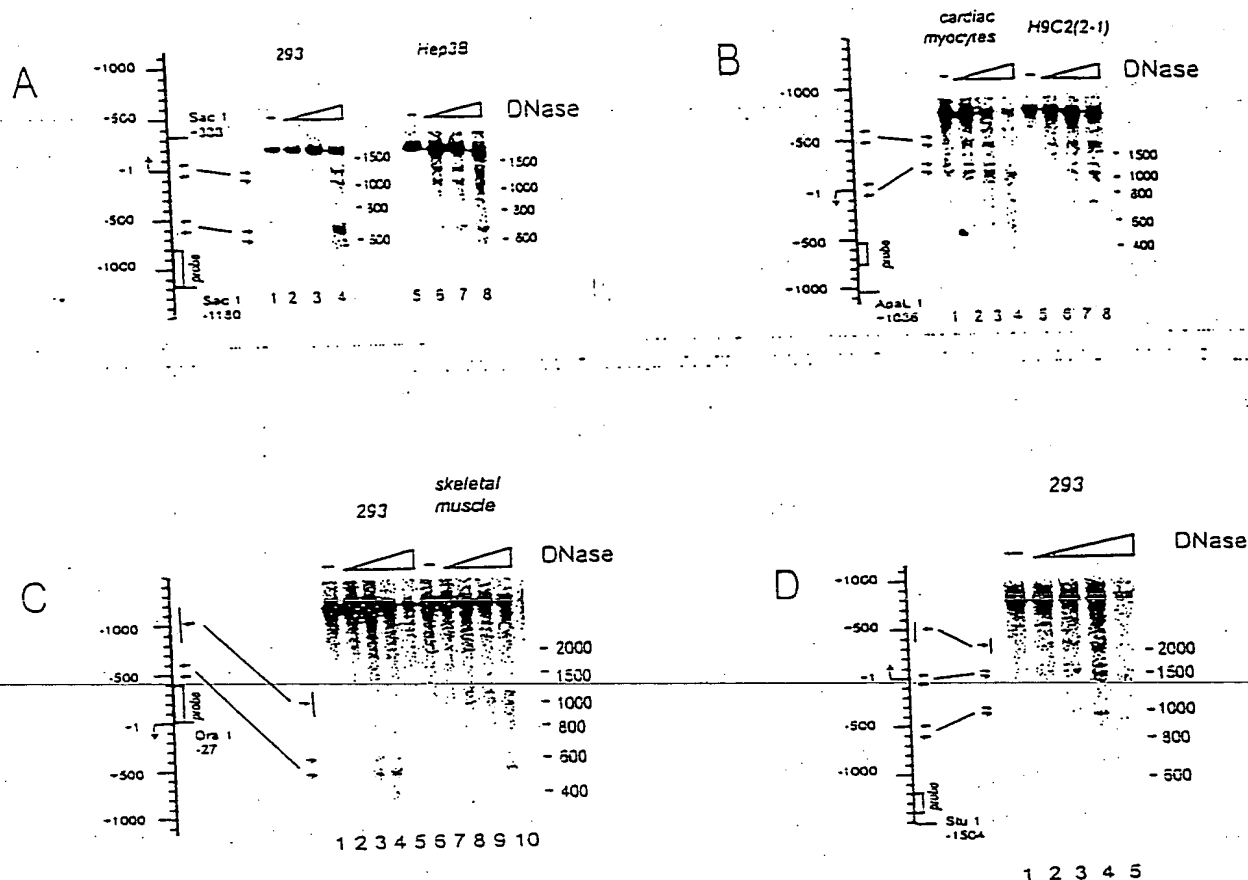


Figure 1



F

Sequence conservation:
gray: individual bases
black: five-mer blocks

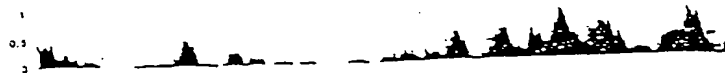
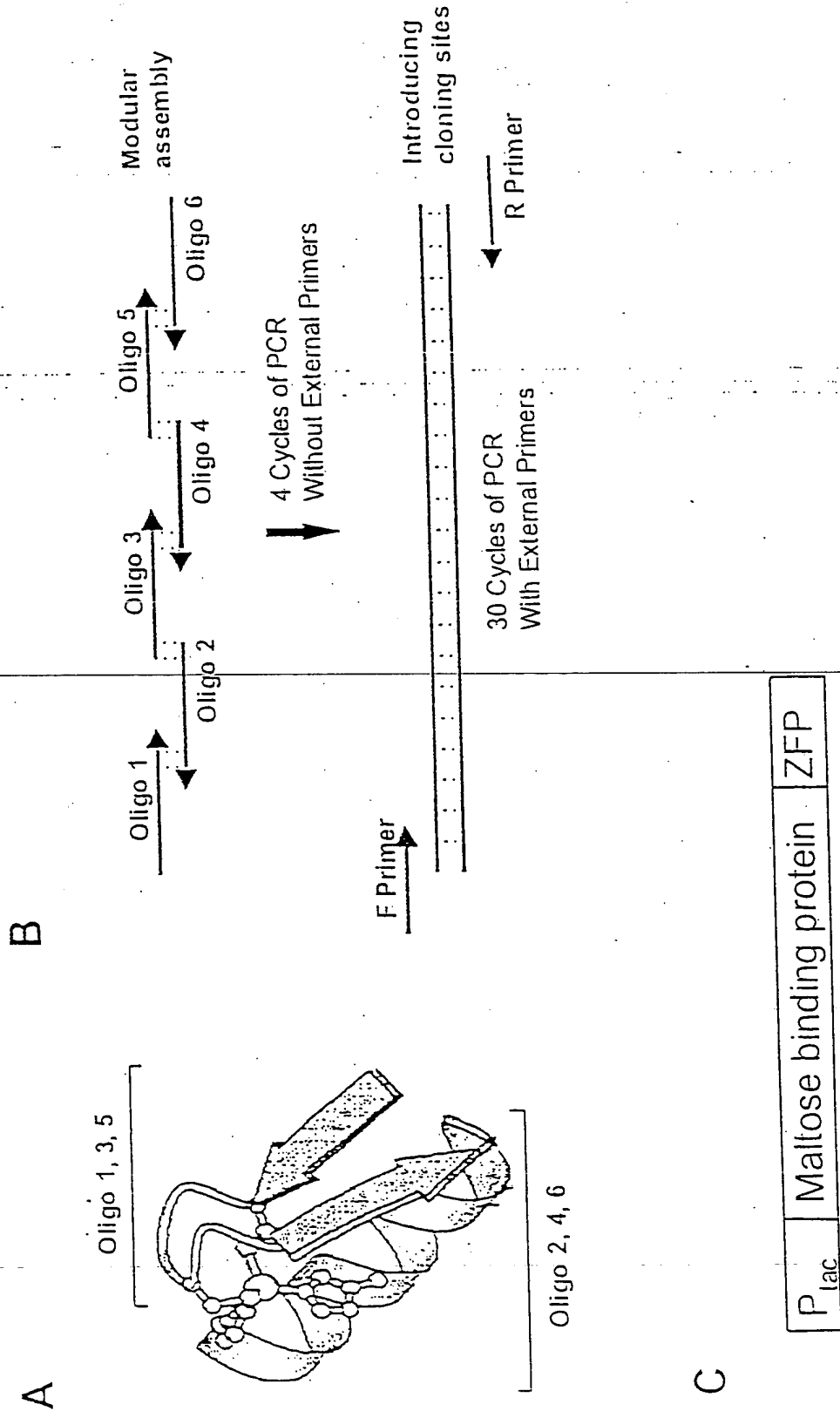


Figure 2



D

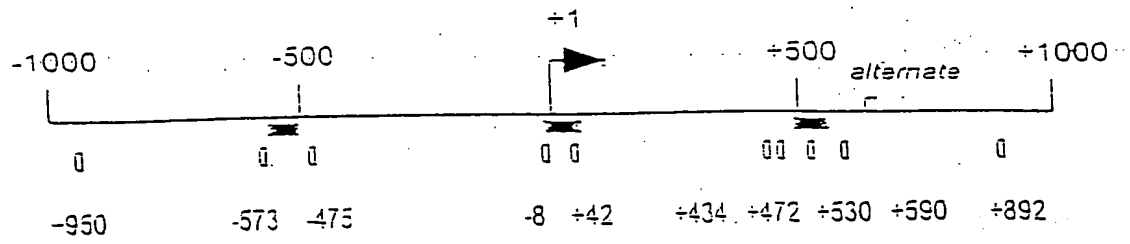
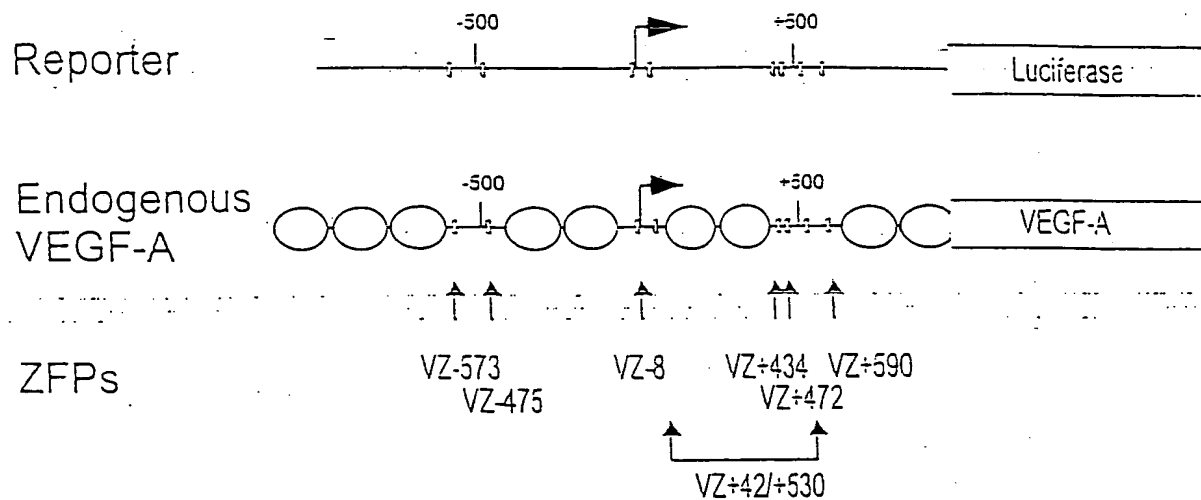


Figure 3

A



B

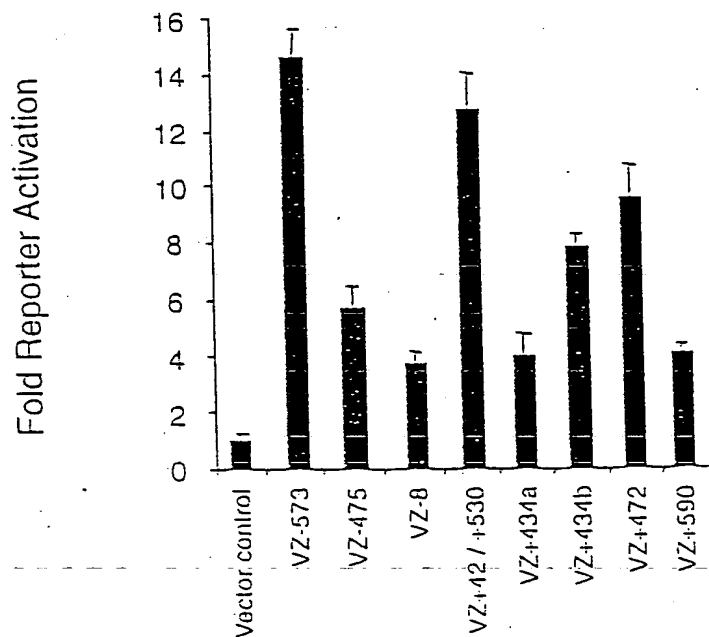
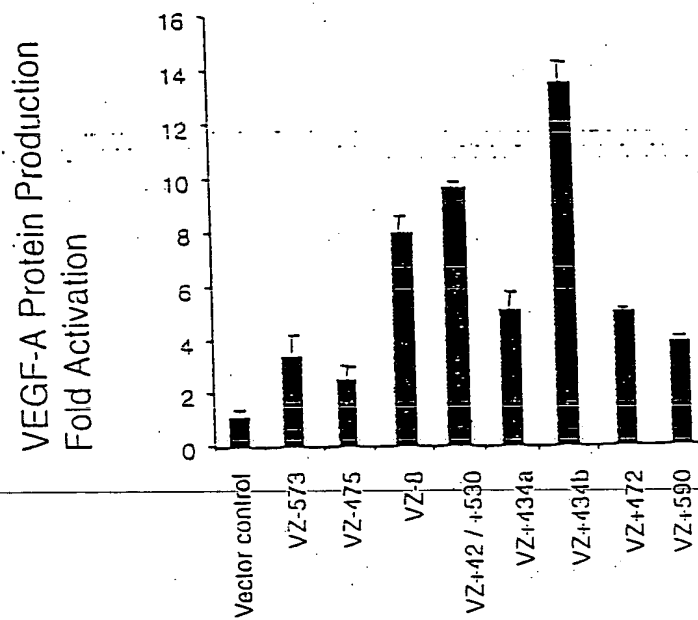


Figure 3

C



D

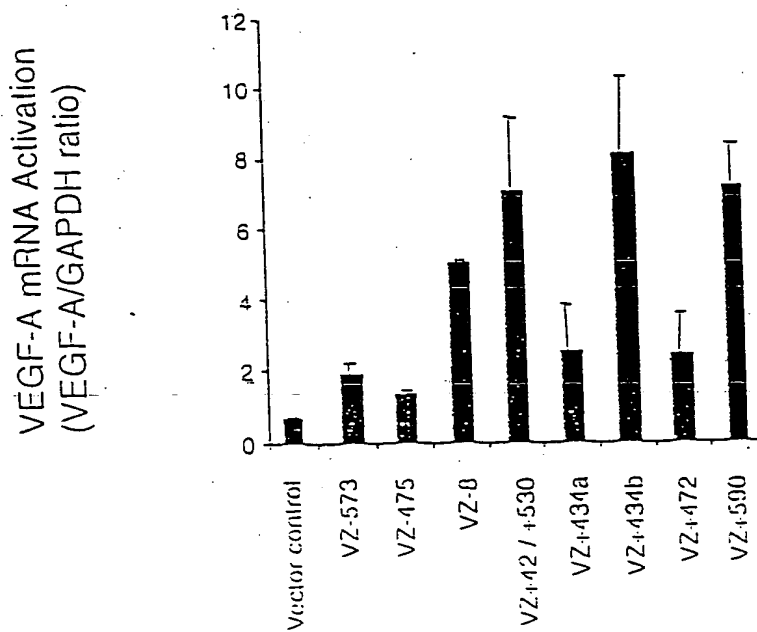
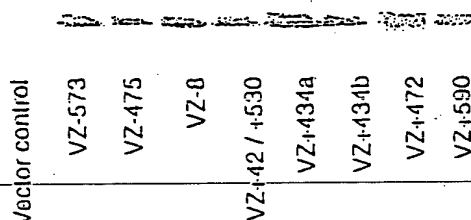


Figure 3

E

ZFP
Protein



F

Relative ZFP mRNA levels
(VP16 / GAPDH by Taqman)

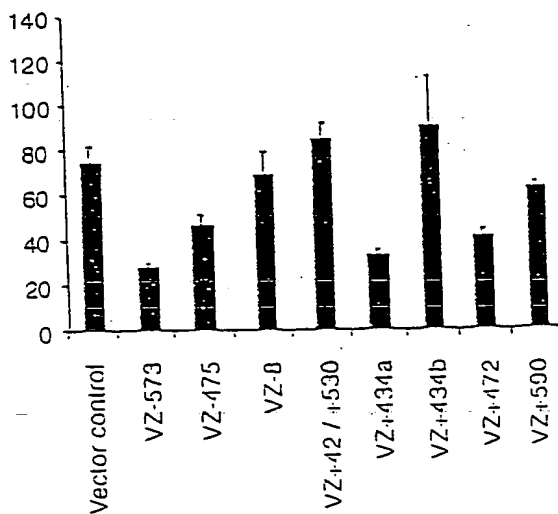
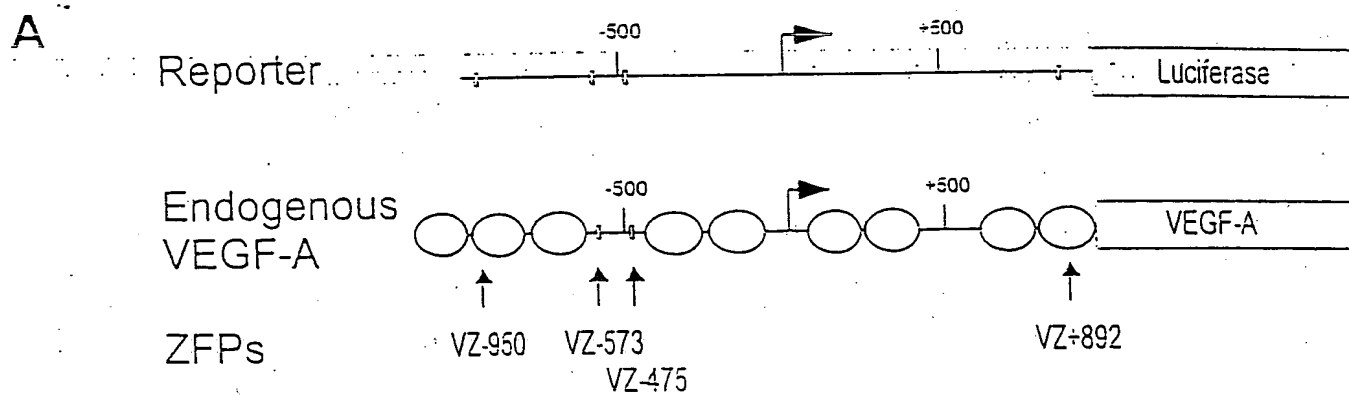
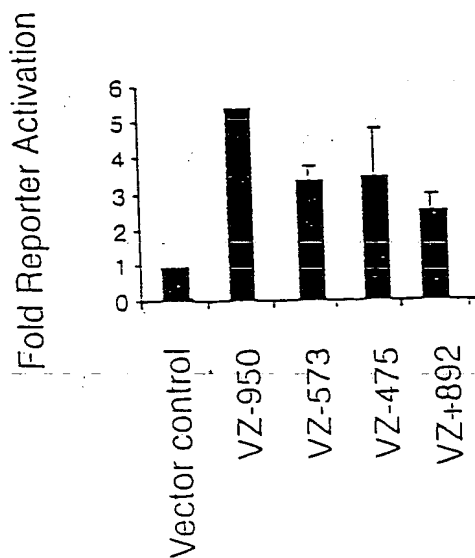


Figure 4



B



C

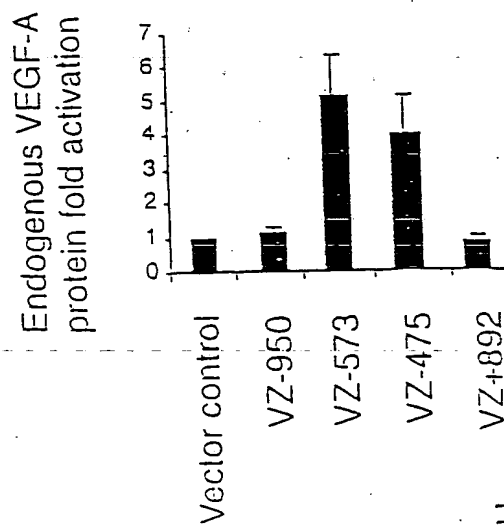


Figure 5

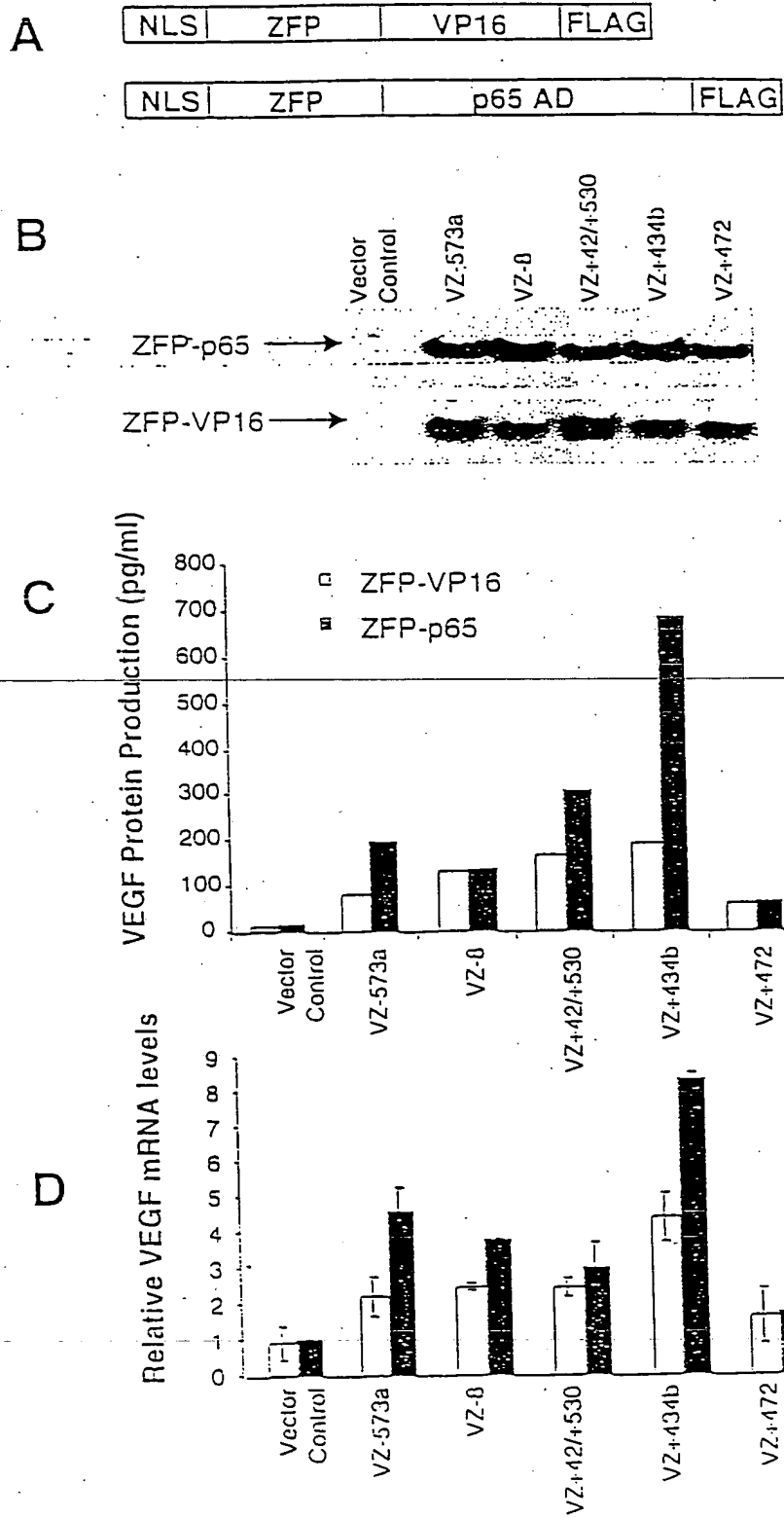


Figure 6

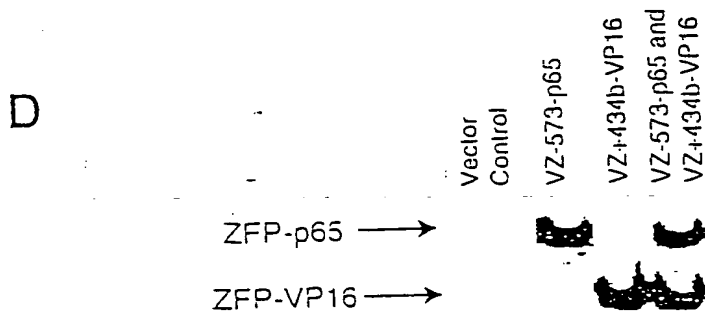
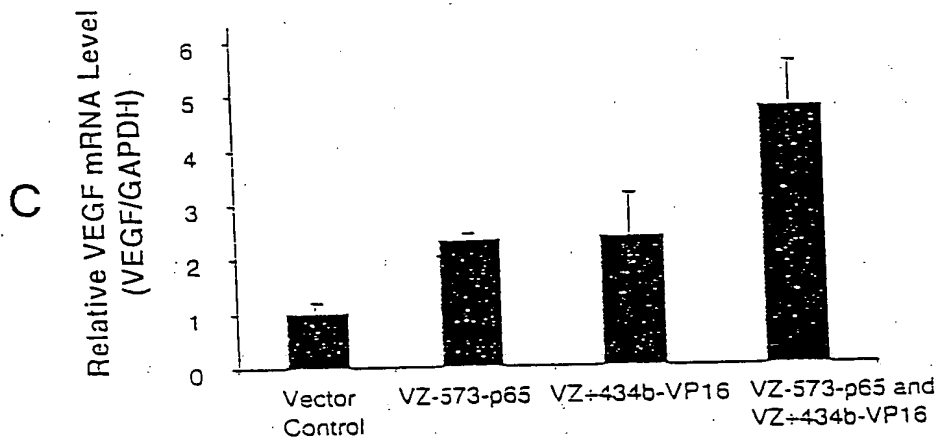
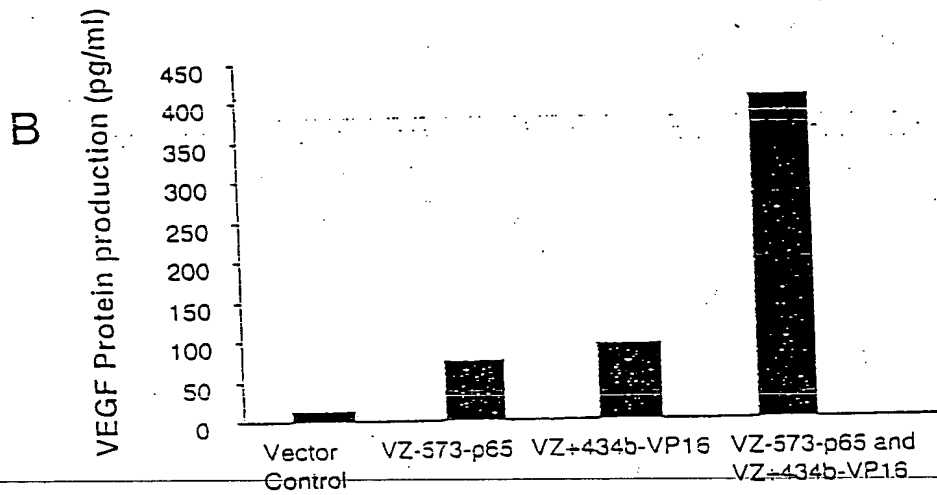
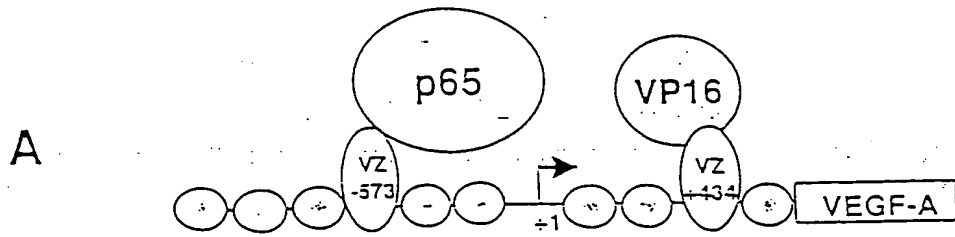


Figure 7

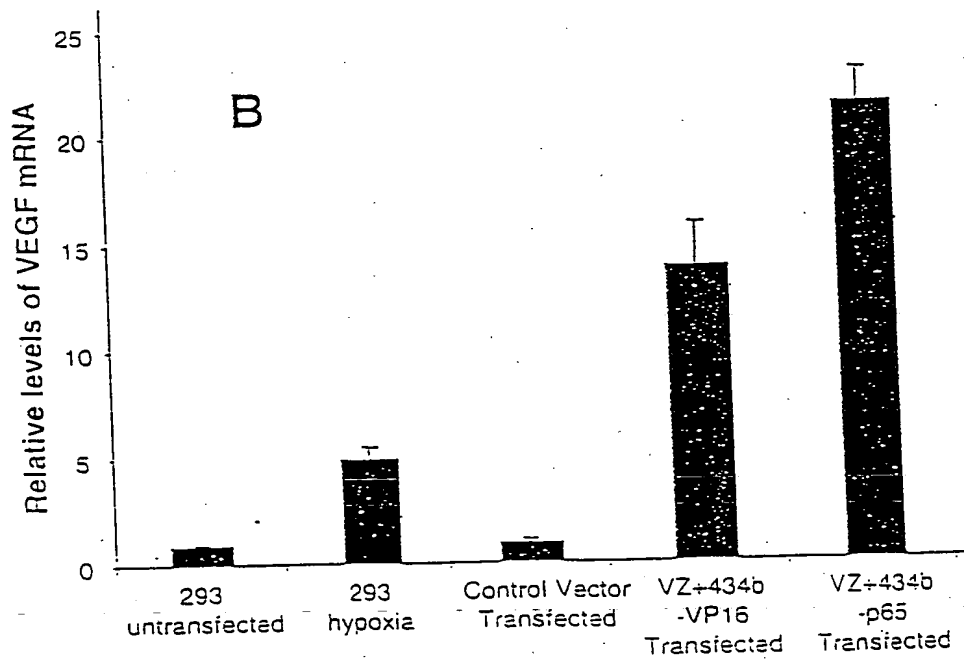
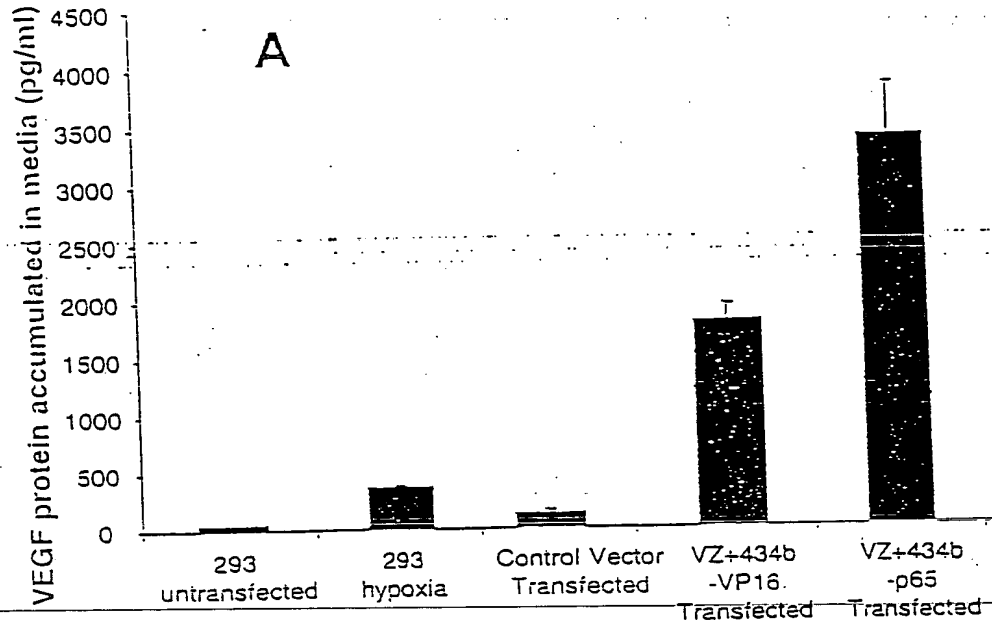
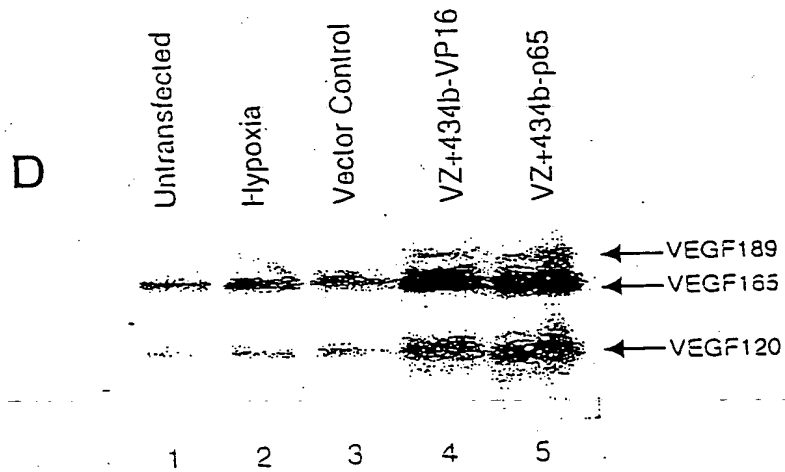
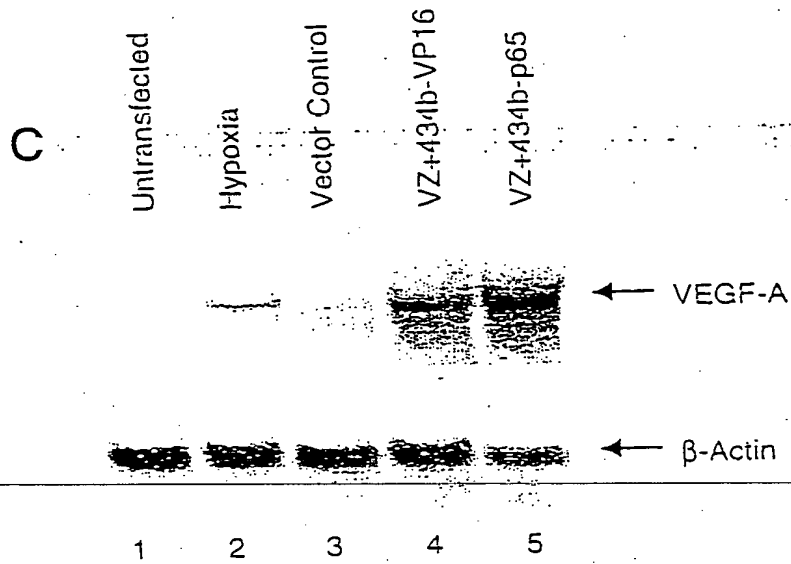


Figure 7



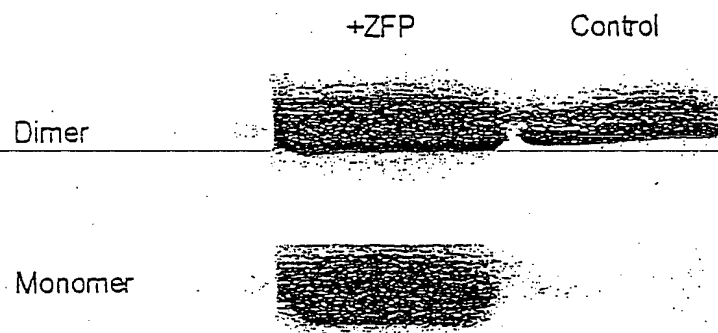
[illegible]

FIG. 8

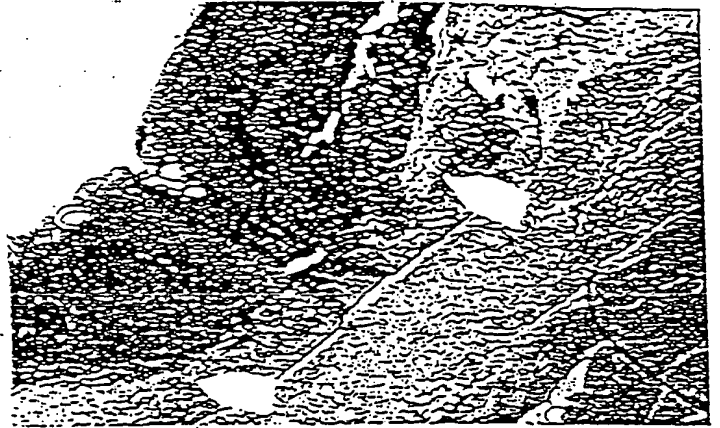
Control

A.



+ ZFP

B.



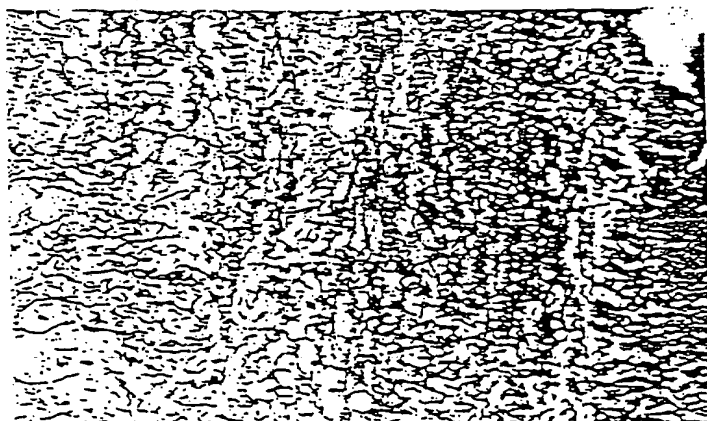
C.



D.



E.



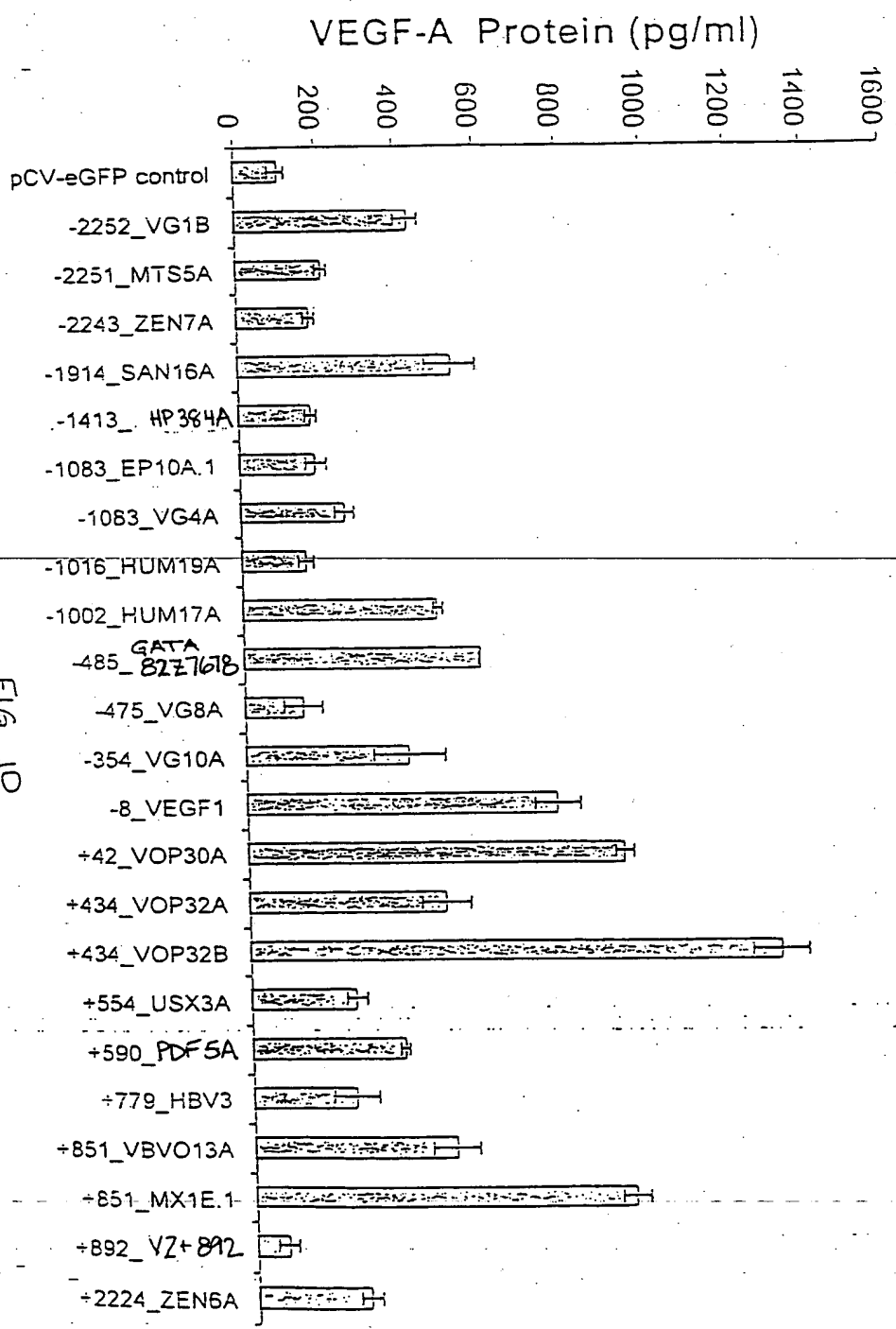
F.



FIG. 9

10005069.120601

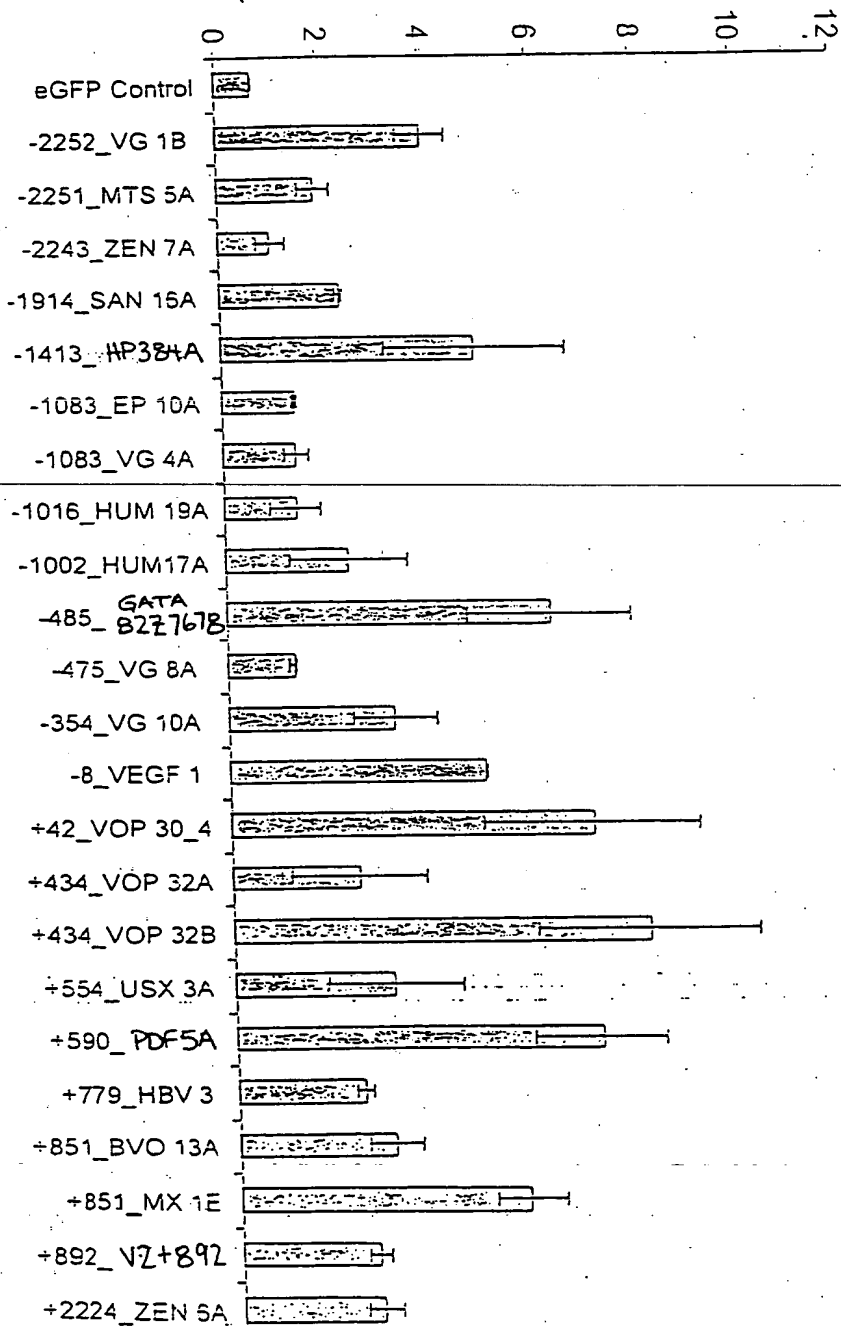
FIG. 10



VEGF/GAPDH (mRNA Level by Taqman)

Protein

ZFP →

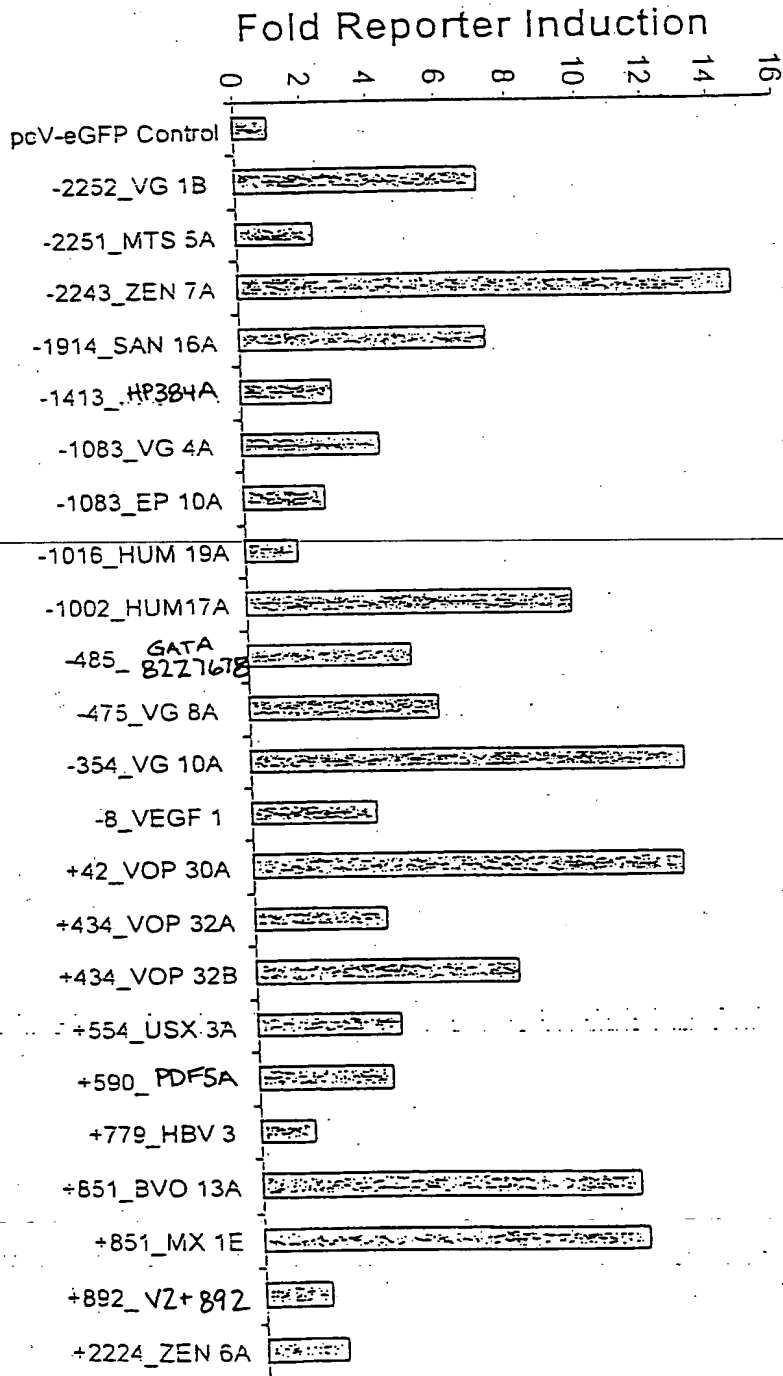


10005059-120501

FIG. 11

10005069.120501

FIG. 12



10006069-120501

FIG. 13

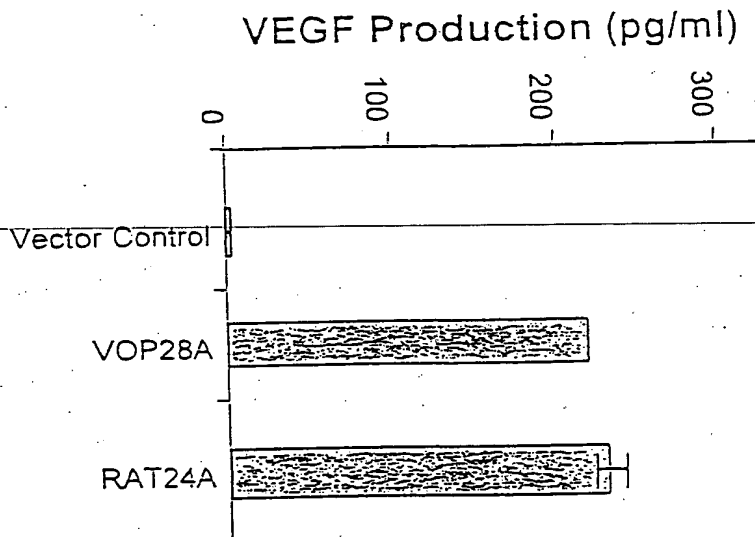
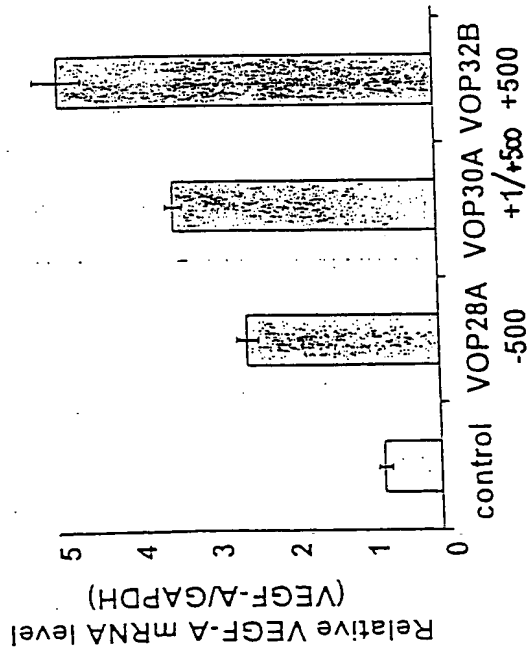


Figure 14

A

VEGF-A mRNA Activation by ZFPs



B

VEGF-C mRNA Activation by ZFPs

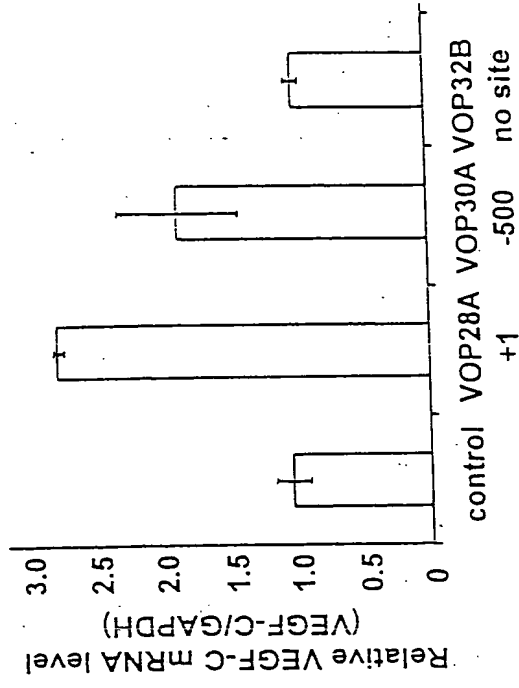
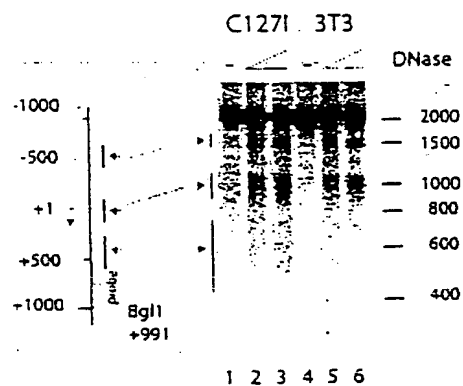
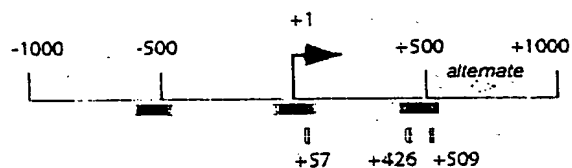


Figure 15

A



B



C

ZFP Name	Target		Finger Designs	
	Sequence 5'-3'	Subsites 5'-3'	1123456	
mVZ+57	TGAGCGGCGGCAGCGGAGc	TGAc GCGc GCGc GCAc GCGc GAGc	QSGHLTK RSDLSR RSDLTR QSGSLTR RSDLTR RSDNLR	F6 F3 F4 F3 F2 F1
mVZ+426	GGGGGTGACc	GCGc GCTc GACc	RSDHLR TSGHLR DRSMLR	F3 F2 F1
mVZ+509	GCTGGGGGCg	GCTc GCGc GCGc	QSGMLTR RSDHLTR DRSHLTR	F3 F2 F1

D

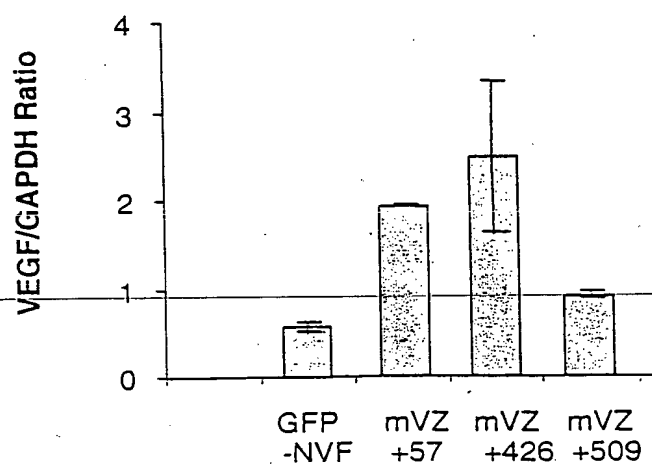
ZFP	Target	Gel Shift		Apparent Kd (nM)
mVZ+57	TGAGCGGCGGCAGCGGAGc		Bound Free	0.031
mVZ+426	GGGGGTGACc		Bound Free	<0.01
mVZ+509	GCTGGGGGCg		Bound Free	<0.01
SP1	GGGGCGGGGg		Bound Free	0.053

Figure 16

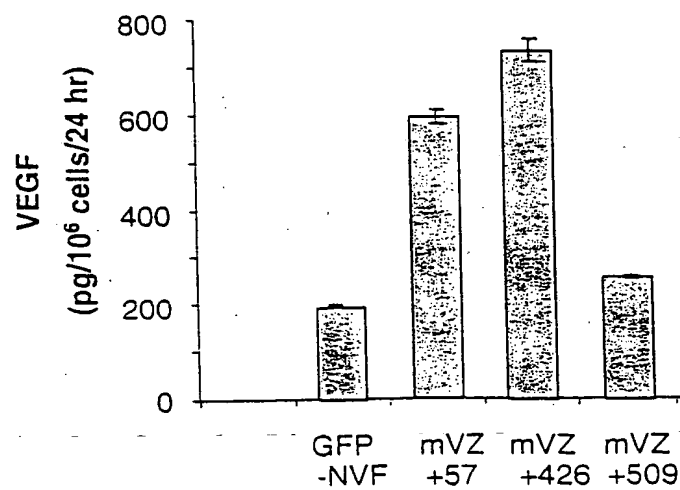
A



B



C



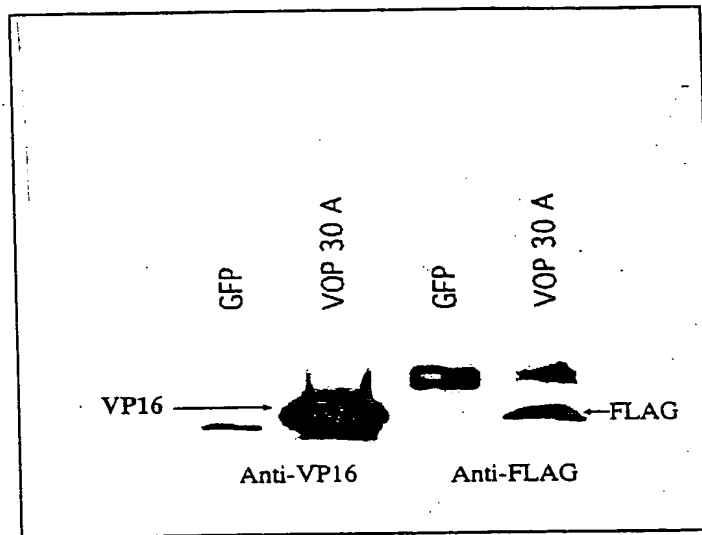


FIG. 17A

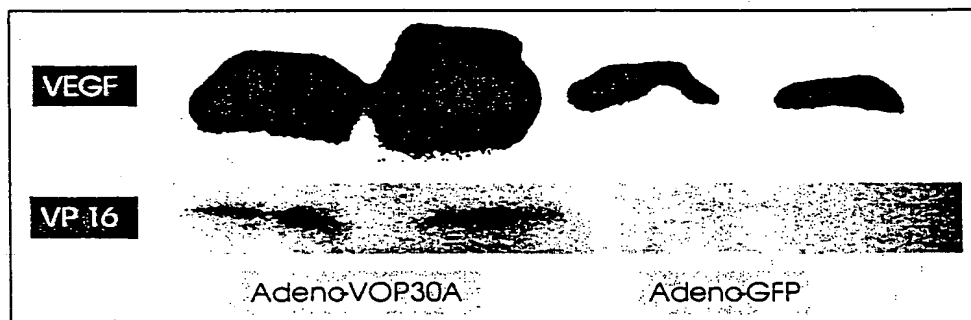


FIG. 17B

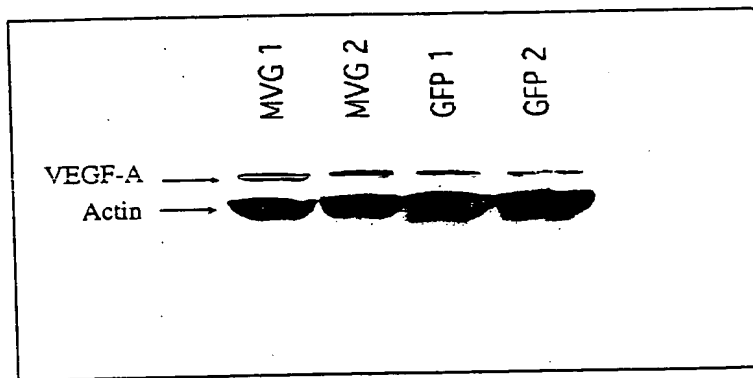


FIG. 17C

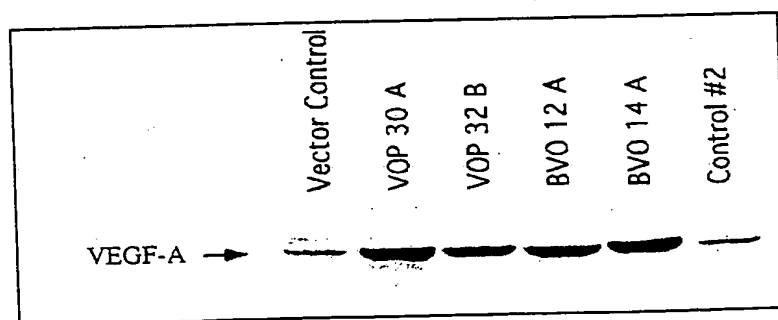


FIG. 17D

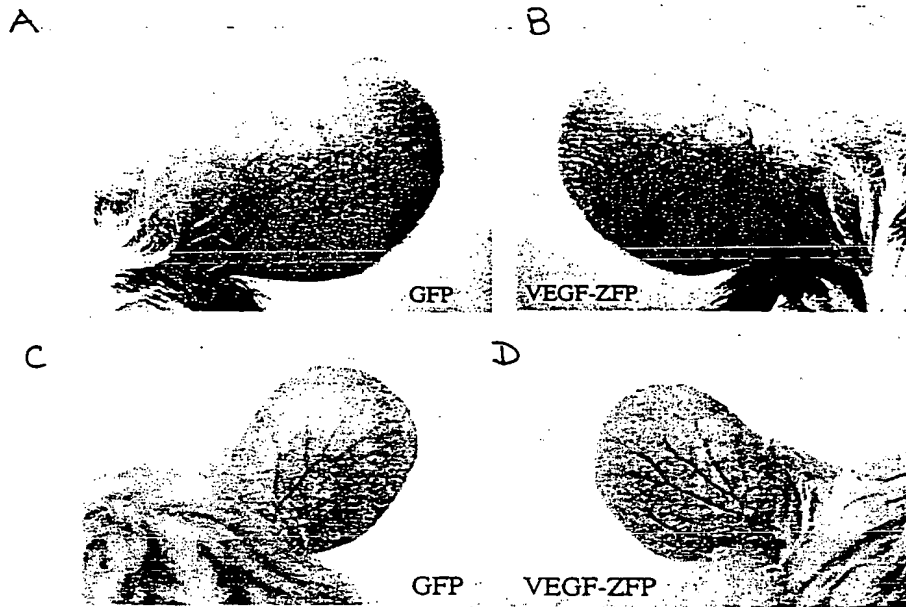


FIG. 18

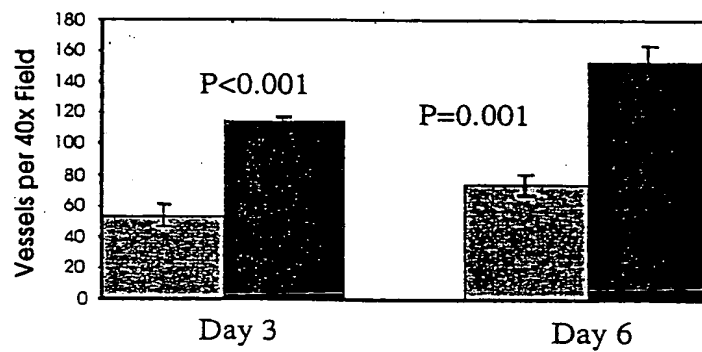


FIG. 18 E

FIG. 19A

GFP



FIG. 19B

MVG

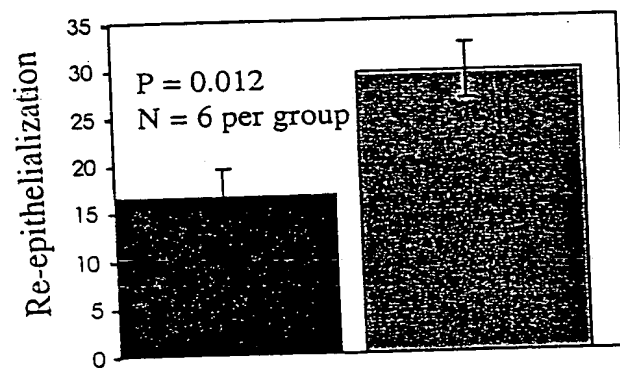


FIG. 19C

FIG. 20A

FIG. 20B

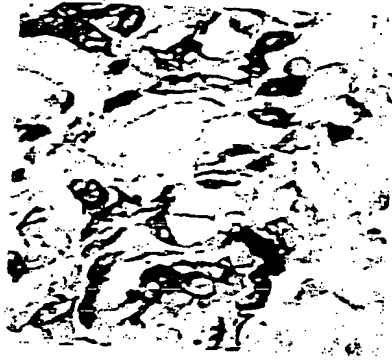


FIG. 21 A



FIG. 21 B

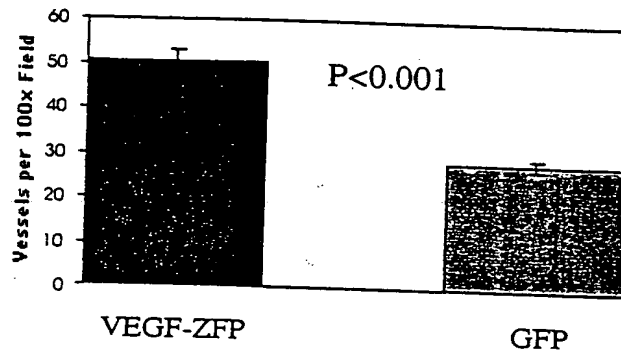
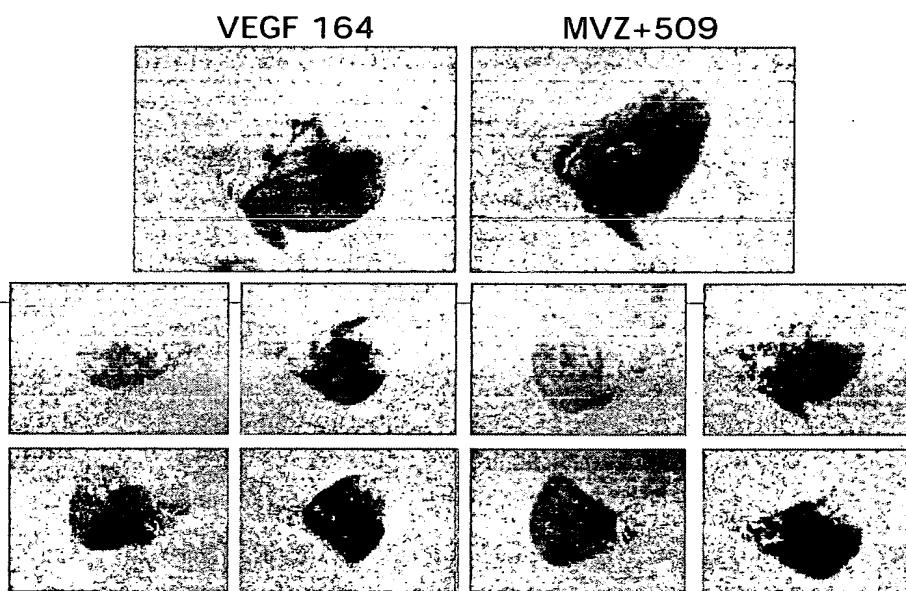


FIG. 21 C

Figure 22



Year	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	